

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/535,387	05/17/2005	Yoshio Yoshida	TIP 034	5809
75	90 04/05/2006		EXAM	INER
Gary C Cohn			SHEWAREGE	), BETELHEM
Suite 105 4010 Lake Was	hington Boulevard NE		ART UNIT	PAPER NUMBER
Kirkland, WA			1774	<del></del>

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)	
		10/535,38	7	YOSHIDA ET AL.	
	Office Action Summary	Examiner		Art Unit	
		Betelhem S	Shewareged	1774	
	The MAILING DATE of this communicat	ion appears on the	cover sheet with the c	orrespondence ad	ldress
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL sisons of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF TH 7 CFR 1.136(a). In no ever ation. Ty period will apply and will by statute, cause the appli	IS COMMUNICATION  nt, however, may a reply be tim  expire SIX (6) MONTHS from cation to become ABANDONEI	N. nely filed the mailing date of this c D (35 U.S.C. § 133).	
Status					
2a) <u></u>	Responsive to communication(s) filed on This action is <b>FINAL</b> . 2b). Since this application is in condition for closed in accordance with the practice up to the practice of the condition of the practice of the condition of the condition of the practice of the condition of the practice of the condition of the co	☑ This action is no allowance except t	for formal matters, pro		e merits is
Dispositi	on of Claims				
5)□ 6)⊠ 7)□ 8)□ <b>Applicat</b>	Claim(s) <u>1-20</u> is/are pending in the appl 4a) Of the above claim(s) is/are v Claim(s) is/are allowed. Claim(s) <u>1-20</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction is objected to by the E.	vithdrawn from con n and/or election re xaminer.	equirement.		
•	The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	n to the drawing(s) be correction is require	e held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	` *
Priority (	ınder 35 U.S.C. § 119				
a)	Acknowledgment is made of a claim for   All b) Some * c) None of:  1. Certified copies of the priority doc  2. Certified copies of the priority doc  3. Copies of the certified copies of the application from the International See the attached detailed Office action for	cuments have bee cuments have bee he priority docume Bureau (PCT Rule	n received. n received in Applicati ents have been receive e 17.2(a)).	ion No ed in this National	l Stage
2) Notice 3) Infor	ot <b>(s)</b> Dee of References Cited (PTO-892)  Dee of Draftsperson's Patent Drawing Review (PTO- Transport (PTO-1449 or PTO-1449)  Der No(s)/Mail Date 1/13/06.		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	O-152)

# **DETAILED ACTION**

# Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 5, 7-12, 14 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi et al. (US 2002/0176970 A1), as evidenced by AEROSIL Datasheet (Internet Print out), in view Otani et al. (US 2001/0036552 A1).

Kobayashi discloses an ink jet recording sheet comprising a support, a colorant receiving layer applied on the support, and a boron compound applied onto the colorant receiving layer (abstract and [0090]). The boron compound is equivalent to the claimed treatment solution. The colorant receiving layer comprises a polyvinyl alcohol resin and a pigment containing a vapor phase process silica and a colloidal silica ([0068] and [0074]). The support is a paper coated a resin [0174], wherein the coated resin is equivalent to the claimed undercoating layer. AEROSIL 300 is an example of the vapor phase process silica, and has a specific surface area of 300 m²/g, which is evidence by AEROSIL Datasheet. The amount of the vapor phase process silica is at least 50% by weight based on total pigment [0074]. The ratio of particles to pigment is 1.5/1 to 10/1 [0085]. Kobayashi does not disclose that the colloidal silica has the claimed particle size.

Otani teaches an ink jet recording material comprising a support and at least an outermost ink receiving layer having a binder and a pigment (abstract). The pigment can be colloidal silica having an average particle size of 30-500nm and a primary particle size of 5-60nm ([0018] and [0020]).

Kobayashi and Otani are analogous art because they are from the same field of endeavor that is the ink jet recording sheet art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the colloidal silica of Otani with the invention of Kobayashi in order to enhance ink absorbency and provide excellent color reproduction (see [0020] of Otani).

With respect to the value of specular gloss, it is elementary that the mere recitation of newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to those things to distinguish over the prior art." In re swinehart et al., 169 USPQ 226 at 229. Since the combination of the Kobayashi reference and the Otani reference teaches all of Applicant's claimed compositional and positional limitations, it is inherent that the reference article function in the same manner claimed by Applicant. The burden is upon Applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on.

3. Claims 1, 3, 4, 6-13 and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mishima (US 6,183, 851 B1) in view of Otani et al. (US 2001/0036552 A1).

Mishima discloses an ink jet image recording medium comprising a support and a coating layer on the support (abstract). The coating layer comprises inorganic particles such as amorphous silica, gamma alumna and colloidal silica, and the particles may be used in combination (col. 8, lines 24-55). The support is a paper laminated with a polyolefin (col. 17, line 20), wherein the polyolefin is equivalent to the claimed undercoating layer. The coating layer further comprises a binder such as polyvinyl alcohol (col. 9, line 66). The ratio of particles to binder is disclosed in col. 11, line 48-62. Mishima does not disclose that the colloidal silica has the claimed particle size.

Otani teaches an ink jet recording material comprising a support and at least an outermost ink receiving layer having a binder and a pigment (abstract). The pigment can be colloidal silica having an average particle size of 30-500nm and a primary particle size of 5-60nm ([0018] and [0020]).

Mishima and Otani are analogous art because they are from the same field of endeavor that is the ink jet recording sheet art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the colloidal silica of Otani with the invention of Mishima in order to enhance ink absorbency and provide excellent color reproduction (see [0020] of Otani).

With respect to the value of specular gloss, it is elementary that the mere recitation of newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to those things to distinguish over the prior art."

In re swinehart et al., 169 USPQ 226 at 229. Since the combination of the Mishima reference and the Otani reference teaches all of Applicant's claimed compositional and

Art Unit: 1774

positional limitations, it is inherent that the reference article function in the same manner claimed by Applicant. The burden is upon Applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on.

With respect to the amount of colloidal silica based on the total particles, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. *In re Aller*, 105 USPQ 233. One of ordinary skill in the art would have been motivated to adjust the amount of colloidal silica in order to optimize ink receiving and printing properties of the layer. A prima facie case of obviousness may be rebutted, however, where the results of the optimizing variable, which is known to be result-effective, are unexpectedly good. *In re Boesch and Slaney*, 205 USPQ 215.

# Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 571-272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B.S. March 31, 2006.

> BETELHEM SHEWAREGED PRIMARY EXAMINER

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PTO/SB/08A (08-03).
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

Sheet 1

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/535,387			
Filing Date	17 May 2005			
First Named Inventor	Yoshida			
Art Unit	2853 1774			
Examiner Name	B. Shewareged			
Attorney Docket Number	TID 024			

Examiner Cite No.1	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
	Number-Kind Code <sup>2 (F known)</sup>		Applicant of Ottes Document	Figures Appear	
Bs		<sup>US-</sup> 5281467	01-25-1994	Shimada et al.	(
10		<sup>US-</sup> 6238784	05-29-2001	Mochizuki et al.	
4.5		US- 6410123	06-25-2002	Otani et al.	
41		<sup>US-</sup> 6773770	08-10-2004	Sugiyama et al.	
44		<sup>US-</sup> 6846524	01-25-2005	Ozawa et al.	
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		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>8</sup> (# known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
BS		JP 2002-248851A	09-03-2002	Hokuetsu		7
**		JP 2002-166645	06-11-2002	Hokuetsu		7
11		JP 2002-248850A	9-3-2002	Hokuetsu		17
• •		JP 11-020306A (Abst)	01-26-1999	Konica		
11		JP 2002-362010	12-18-2002	PT Public		17
161		JP 2003-145916	5-21-2003	Oji Paper		17

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** 10/535,387 Filing Date 17 May 2005 INFORMATION DISCLOSURE First Named Inventor Yoshida STATEMENT BY APPLICANT Art Unit 2853 1774 (Use as many sheets as necessary) **Examiner Name** B, Shewaregeo Sheet 2 **Attorney Docket Number** 

Examiner	Cite No.1	Cite Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
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1.		JP 62-095285 (Abst)	05-01-1987	Sanyo		
4,		JP 06-305237 (Abst)	11-1-1994	New Oji		
31		JP 05-338348	12-21-1993	Nisshinbo		Z
41		JP 2000-85242	3-28-2000	Oji Paper		1
si	1	JP 2000-108505	4-18-2000	Mitsubishi		7

Examiner Date 12006 Considered 03 Signature

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11		JP 2000-62314	2-29-2000	Nippon Kakoh		7	
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# Notice of References Cited Application/Control No. 10/535,387 Applicant(s)/Patent Under Reexamination YOSHIDA ET AL. Examiner Betelhem Shewareged 1774 Page 1 of 1

# **U.S. PATENT DOCUMENTS**

*	· · · · · · · · · · · · · · · · · · ·	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-2002/0176970 A1	11-2002	Kobayashi et al.	428/195
*	В	US-6,183,851 B1	02-2001	Mishima, Masayuki	428/32.34
*	С	US-2001/0036552 A1	11-2001	Otani et al.	428/411.1
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# **NON-PATENT DOCUMENTS**

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*A co		is reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



# degussa.

AEROSIL® 300 Hydrophilic fumed Silica

# AEROSIL<sup>®</sup> 300 is a hydrophilic fumed silica with a specific surface of 300 m<sup>2</sup>/g.

### **Applications and Properties Applications**

- Paints and Coatings
- HCR and LSR (LIMS)- silicone rubber
- Cable compounds and unsaturated Polyester resins Adhesives and Sealants
- · Printing inks

#### **Properties**

- Rheology and thixotropy control of liquids, binders, polymers, etc.
- Optimal dispersion yields best results in pronounced thickening and thixotropy.
- Reinforcement of HCR and LSR (LIMS)-silicone rubber.
- Excellent transparency in unsaturated polyester resins.

Physico- chemical Data				
Properties	Unit	Typical Value		
Specific surface area (BET)	m <sup>2</sup> /g	300 ± 30		
Average primary particle size	nm	7		
Tapped density (approximate value)* acc. to DIN ISO 787/XI, Aug. 1983	g/I	ca. 50		
Bulk density (approximate value)* ACM 4	g/i	ca. 30		
Moisture* 2 hours at 105°C	%	< 1.5		
Ignition loss 2 hours at 1000°C based on material dried for 2 hours at 105°C	%	< 2.0		
pH-Value in 4% dispersion		3.7 - 4.7		
SiO <sub>2</sub> - content (1) (1) based on ignited material	%	> 99.8		

<sup>\*</sup> ex plant

The data represents typical values and not production parameters

# Safety and Handling

With each (sample-) delivery of our products we will send a Material Safety Data Sheet. At any time you can also ask for an MSDS or any other information regarding product safety.

#### Packaging and Storage

AEROSIL® 300 is supplied in multiple layer 10 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROSIL $^{\circledR}$  300 should be used within 2 years after production.

Registration			
CAS-No.	112 945-52-5 7631-86-9		
EINECS	231-545-4		
TSCA (USA), AICS (Australia), CEPA (Canada)	Registered		
MITI (Japan)	1-548		
ECL (Korea)	KE-30953 (KE-31032)		
NEPA (China)	List 1		

If you like to order a sample of this product <u>click here</u>.

For further information please refer to our contacts on the world map or:

#### **Commercial Contact**

## Degussa AG

Business Line AEROSIL® Weissfrauenstrasse 9 D-60287 Frankfurt am Main Germany

Tel. +49 69/218-2532 Fax +49 69/218-2533 E-mail: aerosil@degussa.com

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ALEXANDRIA, VA 22313-1450 IF UNDELIVERABLE RETURN IN TEN DAYS

OFFICIAL BUSINESS







# AN EQUAL OPPORTUNITY EMPLOYER

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